



# LANL scientists named SIAM Fellows for their contributions to mathematics

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LOS ALAMOS, New Mexico, May 4, 2009— Los Alamos National Laboratory scientists James M. “Mac” Hyman, Alan S. Perelson, David H. Sharp, and Burton B. “Burt” Wendroff are new Fellows of the Society for Industrial and Applied Mathematics (SIAM).

Hyman of Applied Mathematics and Plasma Physics was recognized for his contributions to the numerical solution of partial differential equations and modeling of biological systems. “SIAM is a wonderful scientific organization supporting applied mathematicians and computational scientists at the national laboratories and in academia,” Hyman said. “I am delighted to be included as one of its first fellows.” A past president of SIAM, Hyman heads the Advanced Scientific Computing Research program at the Los Alamos Department of Energy Office of Science, serves on the executive council of the Laboratory’s Center for Non-Linear Studies, and is an adjunct professor of mathematics at the University of Arizona.

Perelson of Theoretical Biology and Biophysics was named Fellow for his contributions to viral dynamics and other problems of mathematical biology. “It is a great honor to have my work in these areas recognized by my peers in the applied mathematics community,” he said. Perelson is a Senior Laboratory Fellow in the Theoretical Biology and Biophysics group, which he headed from 1995 to 2001. He is also an external professor at the Santa Fe Institute and an adjunct professor at Boston University, at the University of Rochester School of Medicine, and at the University of New Mexico. Perelson is a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science.

Sharp of the Theory, Simulation & Computation Directorate was recognized for his contributions to dynamical systems, turbulence theory, and biology. “SIAM plays a vital role in advancing applied mathematics and its contributions to science and society,” he said. “I look forward to supporting these activities as a SIAM Fellow.” Sharp is a Laboratory Fellow and also a Fellow of the American Physical Society. He led the Complex Systems group in the Theoretical Division and was senior scientific advisor in the Applied Physics Division. He also was chief scientist for Science, Technology, and Engineering and chaired the Associate Director for Weapons Programs Predictive Science Advisory Council. He received the DOE Defense Programs Award of Excellence for developments in certification methodology.

Wendroff of Applied Mathematics and Plasma Physics was recognized for his contributions to the numerical solution of partial differential equations. “The news was a very pleasant surprise,” Wendroff said. “I am most grateful for this recognition by the

Society of my contributions to applied mathematics.” Wendroff, a retired Laboratory Fellow and Associate, is adjunct professor at the University of New Mexico. His research interests include nonlinear hyperbolic systems, traveling wave phenomena, numerical analysis, applications of mathematics to the sciences, artificial intelligence, game theory, and vector and parallel processing. He holds a master’s degree in mathematics from MIT and a doctorate in mathematics from New York University.

The SIAM Fellows program honors SIAM members who are recognized by their peers as having made outstanding contributions to fields served by SIAM.

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